**The ectopic posterior pituitary gland**

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An 8-year-old boy presented to paediatric endocrinology with short stature, delayed bone age and biochemical features suggestive of hypopituitarism.

Magnetic resonance imaging of the brain demonstrated a flattened anterior pituitary gland within the sella, associated with absence of the infundibular stalk and an ectopic posterior pituitary gland (Fig. 1). There was associated tonsillar ectopia due to the small cranium.

**Discussion**

An ectopic posterior pituitary gland is a rare condition and may present with an empty pituitary fossa, hypoplasia or absence of the infundibular stalk and resultant short stature due to growth hormone deficiency. It may be associated with septo-optic dysplasia, Chiari I malformation, agenesis of the corpus callosum, Kallmann syndrome and periventricular heterotopias. The location of the ectopic lobe can vary, but it is most commonly located along the median eminence in the floor of the third ventricle.

Causes of an ectopic posterior pituitary gland include defective neuronal migration during embryogenesis, tumours, trauma, or surgical transection of the pituitary stalk. Usually the anterior pituitary gland is absent, or attenuated and reduced in height, and the infundibular stalk may not be visible. The infundibular stalk is best assessed after injection of gadolinium. Signal hyperintensity in the posterior aspect of the pituitary gland on T1-weighted images is related to the paramagnetic effect of the vasopressin-neurophysin II co-peptin complex.

**REFERENCES**


